## **AMENDMENTS TO THE CLAIMS**

This listing of claims replaces all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A computer-readable <u>storage</u> medium having computer-executable instructions <u>stored thereon that</u>, <u>when executed by a processor</u>, <u>implement a method for associating original source code with binary code for debugging the binary code</u>, <u>the method comprising</u>:

storing <u>a</u> source code <u>file</u> on a server, the source code <u>file</u> including source code and <u>being</u> associated with a version;

compiling the source code file into executable code a binary file;

while compiling the source code file, extracting obtaining information that identifies the server a location of the source code file and the version associated with the source code file;

storing the <u>extracted</u> information in a debug <u>area-file</u> associated with the <u>executable code</u> <u>binary file;</u>

after compiling the source code file, receiving an instruction for a debugger to debug the binary file;

after receiving the instruction for the debugger, using the extracted information in the debug file, locating the source code file and associate it with the binary file; and

thereafter debugging the binary file with full source code support by correlating lines of the source code file with binary instructions in the binary file, the source code file including only the source code originally used to compile the binary file.

2. (Currently Amended) The computer-readable <u>storage</u> medium of claim 1, further comprising:

extracting the information from the debug file;

requesting the source code associated with the version from the server via the information;

placing the source code in a directory used by a debugger to debug the executable code; and

executing the debugger and matching an instruction in the executable code to an instruction in the source code.

3. (Currently Amended) The computer-readable <u>storage</u> medium of claim 1, wherein the source code <u>file</u> includes programming statements which, when compiled, produce executable code in the form of the binary file.

4. (Currently Amended) The computer-readable <u>storage</u> medium of claim 1, wherein the server comprises a version control server that stores a plurality of versions of the source code.

5. (Currently Amended) The computer-readable <u>storage</u> medium of claim 1, wherein the information comprises a name of the server, a port of the server at which the server may be accessed to access the source code, a path to the source code, and a numeric value that indicates a version number of the source code.

6. (Currently Amended) The computer-readable <u>storage</u> medium of claim 1, wherein the <u>executable code binary file</u> includes code that was compiled from a plurality of source code files, each source code file associated with a version.

7. (Currently Amended) The computer-readable <u>storage</u> medium of claim 6, further comprising obtaining additional information that identifies the versions associated with the plurality of source code files to the server and storing the additional information in the debug file.

8. (Currently Amended) The computer-readable <u>storage</u> medium of claim 1, wherein the debug <u>area\_file\_comprises</u> a program database file that is separate from the executable code.

Application No. 10/747,659 Amendment "A" dated March 31, 2008 Reply to Office Action mailed October 31, 2007

9. (Currently Amended) The computer-readable <u>storage</u> medium of claim 1, wherein the debug <u>area-file</u> comprises a portion of an executable file that includes the executable code.

Application No. 10/747,659 Amendment "A" dated March 31, 2008 Reply to Office Action mailed October 31, 2007

10. (Currently Amended) The computer-readable <u>storage</u> medium of claim 1, further comprising

iterating each source code file that is part of a compilation, each source code file having a version;

obtaining information that identifies the version of each source code file to the server and a local name of each source code file;

storing the information in a lookup table; and

extracting, from a-the binary file, local names of a source the source code files that were used in compiling the binary file; and

for each source code file that was used in compiling the binary file, looking up the version in the lookup table by using the local name of the source code file.

11. (Currently Amended) A system for <u>associating original source code with binary</u>

<u>code for debugging the binary code</u>binaries, comprising:

a compiler arranged to compile source code files into a binary file and to generate debug

data, source code files including source code and being associated with a version;

a version control server arranged to store versions of the source code files;

an extractor arranged to operate in parallel with the compiler and extract determine

information that identifies a location of the source code and including the version of each source

code file used to create the binary file, the extractor further being arranged to and store the

extracted information in a debug file for use in retrieving the source code files at a debug time;

<u>and</u>

a debugger arranged to, after compiling of the source code, receive an instruction to

debug the binary file and use the extracted information from the debug file to locate the source

code file and associate it with the binary file, and thereafter debug the binary file with full source

code support by correlating lines of the source code file with binary instructions in the binary

file, the source code file including only the source code originally used to compile the binary file.

12. (Currently Amended) The system of claim 11, further comprising a source server

arranged to extract the information at debug time, retrieve the source code files from the version

control server, and place the source code files in a directory accessible by a debugger the

debugger.

13. (Currently Amended) The system of claim 11 claim 12, wherein the source server

comprises a component of the debugger.

14. (Currently Amended) The system of claim 11 claim 12, wherein the source server

is separate from the debugger.

15. (Original) The system of claim 14, wherein the debugger is arranged to find the

source code files in the directory and is unaware of the version control server.

Page 6 of 10

Application No. 10/747,659 Amendment "A" dated March 31, 2008 Reply to Office Action mailed October 31, 2007

16. (Currently Amended) The system of claim 11, wherein the <u>extracted</u> information comprises key values including a name of the version control server, a port of the version control server at which the version control server may be accessed to access the source code files, a path or paths to the source code files, and a plurality of numeric values, each numeric value indicating a version number of a corresponding source code file.

17. (Cancelled).